Cisco WET200 Wireless-G Business Ethernet Bridge
Cisco Small Business Access Points

High-Speed Wireless Bridging for Small Businesses with Multiple Locations

Highlights

- Securely connects separate wired networks spanning different locations
- Connects to Power over Ethernet devices, simplifying installation and eliminating the need for and cost of installing external power supplies
- Increases wireless throughput and range and reduces “dead spots” in the wireless coverage area with RangeBooster technology
- Protects business information with enhanced security and advanced encryption

Figure 1. Cisco WET200 Wireless-G Business Ethernet Bridge

Product Overview

The Cisco® WET200 Wireless-G Business Ethernet Bridge (Figure 1) transparently bridges separate Ethernet networks together wirelessly and is ideal for small businesses with offices and resources that are in different office suites of a building or in closely adjacent buildings. The WET200 is a Power over Ethernet (PoE) end device, so it can be installed anywhere an Ethernet cable can be run if there is no ready access to a power outlet. PoE enables delivery of both data and power to the Cisco WET200. An AC adapter is also included for use if the device installation site has a power outlet nearby.

Advanced security features include Wi-Fi Protected Access (WPA2) with up to 256-bit Advanced Encryption Standard (AES) encryption using Extensible Authentication Protocol (EAP), giving small businesses the protection they need to communicate and transfer data securely. The integrated quality of service (QoS) features provide consistent voice and video quality on both the wired and

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wireless networks, enabling the deployment of business-quality voice over IP (VoIP) and video applications.

Additional support for VLANs, Simple Network Management Protocol (SNMP), Spanning Tree Protocol, and port mirroring make this an ideal solution for network administrators to incorporate into larger organizations.

RangeBooster technology is a compatible add-on to standard Wireless-G that nearly doubles the wireless signal range and increases throughput by up to 35 percent. Unlike ordinary wireless technologies that are hampered by signal reflections, RangeBooster devices use smart antennas and embedded processors to detect and decode reflected signals to enhance and boost data throughput. This capability also helps to reduce or eliminate “dead spots” within the wireless coverage area.

Features

- 5-port 10/100 BASE-T Ethernet managed switch, autosensing half/full duplex and medium dependent interface (MDI) and MDI crossover (MDI-X)
- Supports 802.11b and 802.11g wireless connection to access point
- Easy installation and configuration via a web interface
- Supports Wired Equivalent Privacy (WEP), WPA Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA-ENT, and WPA2-ENT wireless encryption
- Supports 802.1X, Extensible Authentication Protocol Transport Layer Security (EAP-TLS), and Protected EAP (PEAP) authentication with RADIUS server
- SMA detachable dipole antennas with 1x2 multiple-input, multiple-output (MIMO) to increase coverage
- Supports PoE or external DC power
- Supports SNMP and features an intuitive web-based interface
- Support 802.1Q and port-based VLAN on LAN switch - 1 VLAN bridged over wireless
- Support 802.1p, IP type of service (ToS), and differentiated services code point (DSCP) based QoS on LAN switch
- Supports rate limiting on both wired switch and wireless interface
- Supports Spanning Tree Protocol, port mirroring, and MAC-based access control lists (ACLs)

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco WET200 Wireless-G Business Ethernet Bridge.

Table 1. Specifications for the Cisco WET200 Wireless-G Business Ethernet Bridge

Specifications	
Standards	IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u, IEEE 802.3af (PoE), 802.1p (QoS priority), 802.1Q (VLAN), 802.1X (security authentication), 802.11i ready (security WPA2), 802.11e ready (wireless QoS)
Ports	Five 10/100 BASE-T Ethernet, 12V DC power
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5
LEDs	Power, PoE, Wireless, Ethernet 1-5

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Operating system	Linux
Setup/Config	
Web user interface	Built in web user interface for easy browser-based configuration (HTTP/HTTPS)
Management	
SNMP version	SNMP version 1, 2c, 3
Web firmware upgrade	Firmware upgradable through web browser
Dynamic Host Configuration Protocol (DHCP)	DHCP client
Operating Modes	
Wireless client	Infrastructure or ad hoc
Wireless	
Spec/modulation	Radio and modulation type: 802.11b/DSSS, 11g/OFDM
Channels	Operating channels: 11 North America, 13 most of Europe (ETSI and Japan)
Internal antennas	None
External antennas	2 (omnidirectional) SMA detachable
Transmit power	Transmit power (adjustable) at normal temperature range: 802.11b: 12 ± 1 dBm; 802.11g: 16 ± 1 dBm
Antenna gain in dBi	2
Receiver sensitivity	11g: 54 Mbps at -69 dBm, 11b: 11 Mbps at -82 dBm
Security	
WEP/WPA/WPA2	WEP 64-bit/128-bit, WPA-PSK, WPA2-PSK, WPA-ENT, WPA2-ENT
Access control	MAC-based ACL between wired and wireless interfaces
802.1X	IEEE 802.1X support
Quality of Service	
QoS	• 4 queues • Queue mapping on ingress based on default priority, 802.1p tag, DSCP, and IP ToS • Rate limiting on both ingress and egress direction • Wi-Fi Multimedia (WMM) priority settings for wireless egress
General	
• 16 VLAN groups • 256 MAC address entries across wireless bridge • 1024 MAC address entries in the switch	
Environmental	
Dimensions **W x H x D**	6.69 x 8.07 x 7.68 in. (170 x 205 x 195 mm)
Weight	12.17 oz (345 g)
Power	12V 0.5A DC input and IEEE 802.3af-compliant PoE Maximum power draw: 4.2W
Certification	FCC, ICES-003, CE
Operating temperature	32º to 104ºF (0º to 40ºC)
Storage temperature	-4º to 158ºF (-20º to 70ºC)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90% noncondensing

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Package Contents
• Cisco WET200 Wireless-G Business Ethernet Bridge • 2 SMA detachable dipole antennas • User guide on CD-ROM • Quick installation guide • Ethernet network cable • Power adapter • Product stands • Registration card
Minimum Requirements
• PC or devices with Ethernet port • 802.11b or 802.11g wireless access point • Switch/router with PoE support or PoE injector when used with PoE • Web-based configuration: Java-enabled web browser
Product Warranty
3-year limited hardware warranty with return to factory replacement and 90-day limited software warranty.

Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 3-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: http://www.cisco.com/go/smallbiz.

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